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Spatially extended habitat modification by intertidal reef-building bivalves has implications for consumer-resource interactions

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Appendix 1A. Results from Structural Equation Modeling after Stepwise Backward Elimination
of Relations for Each Shorebird Model

	Model			
	Oystercatcher	Curlew	Bar-tailed godwit	Black-headed gull
<i>Squared multiple correlations (R^2)</i>				
Organic matter	0.450	0.450	0.450	0.450
<i>Lanice conchilega</i>			0.072	
<i>Hediste diversicolor</i>		0.117		
<i>Cerastoderma edule</i>	0.387			0.387
Crustaceans		0.111		
Oystercatcher	0.616			
Curlew		0.511		
Bar-tailed godwit			0.233	
Black headed gull				0.090
<i>Standardized regression weights (p-value)</i>				
Distance > Organic matter	-0.671 (<0.000)	-0.671 (<0.000)	-0.671 (<0.000)	-0.671 (<0.000)
Organic matter > <i>L. conchilega</i>			0.268 (0.003)	
Organic matter > <i>H. diversicolor</i>		0.342 (<0.000)		
Organic matter > <i>C. edule</i>	0.622 (<0.000)			0.622 (<0.000)
Organic matter > Crustaceans		0.333 (<0.000)		
<i>L. conchilega</i> > Bar-tailed godwit			0.227 (0.007)	
<i>H. diversicolor</i> > Curlew		0.141 (0.033)		

<i>C. edule</i> > Oystercatcher	0.152 (0.037)	
<i>C. edule</i> > Black headed gull		0.372 (0.007)
Crustaceans > Curlew	0.195 (0.003)	
Distance > Oystercatcher	-0.417 (<0.000)	
Distance > Curlew	-0.597 (<0.000)	
Organic matter > Oystercatcher	0.338 (<0.000)	
Organic matter > Bar-tailed godwit		0.370 (<0.000)
Organic matter > Black headed gull		-0.303 (0.007)

All sampling stations were included in these models. Distance represents distance to the center of a reef.

Appendix 1B. Results from Structural Equation Modeling after Stepwise Backward Elimination
of Relations for Each Shorebird Model

	Model			
	Oystercatcher	Curlew	Bar-tailed godwit	Black-headed gull
<i>Squared multiple correlations (R^2)</i>				
Organic matter	0.404	0.404	0.404	0.404
<i>Lanice conchilega</i>			0.097	
<i>Cerastoderma edule</i>	0.495			0.495
Crustaceans		0.060		
Oystercatcher	0.590			
Curlew		0.441		
Bar-tailed godwit			0.229	
Black headed gull				0.083
<i>Standardized regression weights (p-value)</i>				
Distance > Organic matter	-0.636 (<0.000)	-0.636 (<0.000)	-0.636 (<0.000)	-0.636 (<0.000)
Organic matter > <i>L. conchilega</i>			0.311 (0.003)	
Organic matter > <i>C. edule</i>	0.704 (<0.000)			0.704 (<0.000)
Organic matter > Crustaceans		0.245 (<0.008)		
<i>L. conchilega</i> > Bar-tailed godwit			0.187 (0.034)	
<i>C. edule</i> > Oystercatcher	0.179 (0.037)			
<i>C. edule</i> > Black headed gull				0.405 (0.002)
Crustaceans > Curlew		0.168 (0.020)		
Distance > Oystercatcher	-0.380 (<0.000)			
Distance > Curlew		-0.617 (<0.000)		

Organic matter > Oystercatcher 0.331 (<0.000)

Organic matter > Bar-tailed
godwit 0.386 (<0.000) -0.289(0.025)

Organic matter > Black headed
gull

Sampling stations inside the reefs were excluded in these models. Distance represents distance to the center of a reef.